



BIOLOGY NMDCAT EARLIER PREP

PMC UNIT WISE TEST Unit-7

WWW.SAEEDMDCAT.COM

03418729745(WhatsApp Groups)

SAEED MDCAT TEAM

TOPIC:

✓ Life processes in Animals & Plants (Transport in Plants and Animals)

Q.1 Root hair are the extensions of:

- A. Pericycle
- B. Epidermis
- C. Pith
- D. Parenchyma

Q.2 Which of the following pathway of water conduction is interrupted by endodermis?

- A. Vacuolar pathway
- B. Symplast pathway
- C. Apoplast pathway
- D. All A, B, C

Q.3 It separates extracellular space in root into two compartments:

- A. Cortex
- B. Plasmodesmata
- C. Pericycle
- D. Casparian strips

Q.4 It is the main factor that is involved in uptake of water to aerial parts of plants:

- A. Cohesion
- B. Transpiration pull
- C. Imbibition
- D. Root pressure

Q.5 If a plant absorbs 10 liters of water per day, then what will be the amount of water used by the plant for its metabolism?

- A. 0.1 liter
- B. 5 liters
- C. 1 liter
- D. 9 liters

Q.6 In plants, facilitated diffusion helps in the transport of minerals across the cell membrane by using:

- A. Phospholipids
- B. Membrane proteins
- C. Cholesterol molecules
- D. Membrane carbohydrates

Q.7 It is the attraction among water molecules which holds them together within the xylem tube:

- A. Tension
- B. Adhesion
- C. Cohesion
- D. Imbibition

Q.8 Stomata open due to _____ of K^+ into guard cell.

- A. Diffusion
- B. Active transport
- C. Facilitated diffusion
- D. Osmosis

Q.9 The hormone which reduces the rate of transpiration by stopping K^+ influx into the guard cells:

- A. Auxins
- B. Cytokinins
- C. Gibberellins
- D. Abscissic acid

Q.10 All environmental factors are sensed by guard cell except:

- A. Temperature
- B. Light intensity
- C. Nitrogen in air
- D. Relative humidity

Q.11 _____ wavelength of light is responsible for opening of stomata.

- A. Red
- B. Green
- C. Blue
- D. Yellow

Q.12 Rate of transpiration will increase by increasing all except:

- A. Light
- B. Temperature
- C. Wind
- D. Humidity

Q.13 Food in plants is transported in the form of:

- A. Monosaccharide
- B. Polysaccharide
- C. Disaccharide
- D. Oligosaccharide



Q.14 In _____ pathway, water molecules move through plasmodesmata from one cell to the other.

- A. Apoplast B. Vacuolar
C. Symplast D. Protoplast

Q.15 It is found among water molecules by which water can move up the xylem like an unbroken column:

- A. Covalent bonds B. Ionic bonds
C. H-bonds D. Ester bonds

Q.16 Significance of transpiration lies in:

- A. Ascent of sap B. Translocation of mineral salts
C. Cooling effect D. All A, B, C

Q.17 It is the most widely accepted theory of carbohydrate translocation:

- A. Root pressure theory B. Imbibition theory
C. Mass flow theory D. Osmotic theory

Q.18 Guard cells differ from adjacent epidermal cells in having:

- A. Mitochondria B. Cell wall
C. Vacuole D. Chloroplast

Q.19 Wilting appears due to excessive:

- A. Respiration B. Transpiration
C. Absorption D. Photosynthesis

Q.20 Which of the following correctly represents carbohydrates in plants?

| | Synthesized | Transported | Stored |
|----|-------------|-------------|----------|
| A. | Glucose | Glucose | Starch |
| B. | Glucose | Sucrose | Glycogen |
| C. | Sucrose | Glucose | Starch |
| D. | Glucose | Sucrose | Starch |

Q.21 Apoplast pathway can take water up till:

- A. Xylem B. Endodermis
C. Epidermis D. Cortex

Q.22 In humans, the transportation of various substances is accomplished by:

- A. Lymphatic and excretory systems B. Cardiovascular and digestive systems
C. Lymphatic and cardiovascular systems D. Nervous and muscular system

Q.23 The number of pulmonary veins that can carry oxygenated blood to left atrium are:

- A. 2 B. 3
C. 4 D. 6

Q.24 Which one of the following pair is mismatched?

| | | |
|----|---------------------|--|
| A. | Renal vein | Carries deoxygenated blood away from kidneys |
| B. | Hepatic vein | Carries deoxygenated blood away from liver |
| C. | Hepatic portal vein | Carries oxygenated blood with food towards liver |
| D. | Pulmonary vein | Carries oxygenated blood to left atrium |

Q.25 The most powerful contraction is generated by:

- A. Left atrium B. Right atrium
C. Left ventricle D. Right ventricle

Q.26 Bicuspid valve is:

- A. Right ventricular inlet B. Right ventricular outlet
C. Left ventricular inlet D. Left ventricular outlet

Q.27 During checkup of heart patient, doctor heard the 'dubb' sound with stethoscope. This sound was produced due to:

- A. Opening of semilunar valve B. Closing of semilunar valve
C. Opening of mitral valve D. Opening of tricuspid valve

Q.28 A structure that is common among all blood vessels:

- A. Connective tissue B. Elastic tissue
C. Endothelium D. Smooth muscles



- Q.29 B-lymphocytes directly develop from:**
A. Lymphoid stem cells in thymus
B. Phagocytic stem cell in bone marrow
C. Lymphoid stem cells in bone marrow
D. Erythroblasts in embryonic liver
- Q.30 Most abundant agranulocytes in blood are:**
A. Eosinophils
B. Lymphocytes
C. Neutrophils
D. Monocytes
- Q.31 The major function of basophils is to:**
A. Destroy small particles by phagocytosis
B. Transport oxygen from lungs to tissues
C. Release histamine to cause inflammation
D. Inactivate inflammation producing substances
- Q.32 Thoracic lymph duct of the lymphatic system opens into:**
A. Superior vena cava
B. Right sub-clavian vein
C. Left sub-clavian vein
D. Hepatic portal vein
- Q.33 All are properties of cardiac tissue except:**
A. Intercalated discs
B. Irregular striations
C. Controlled by autonomic nervous system
D. Easily fatigued
- Q.34 The pH of blood is:**
A. Slightly Acidic
B. Highly basic
C. Highly acidic
D. Slightly basic
- Q.35 These are the blood vessel which have thin walls for nutrient exchange with tissue fluid:**
A. Veins
B. Arteries
C. Capillaries
D. Arterioles
- Q.36 Blood clotting is prevented by the presence of:**
A. Vitamin K
B. Calcium ions
C. Heparin
D. Thrombin
- Q.37 Action potential for heart beat originates from:**
A. SA node
B. Vagus nerve
C. AV node
D. Cardiac nerve
- Q.38 Which protein plays a major role in maintaining osmotic balance?**
A. Albumin
B. Fibrinogen
C. Globulin
D. Prothrombin
- Q.39 The average lifespan of RBC's is about:**
A. Two months
B. One month
C. Five months
D. Four months
- Q.40 Chordae tendineae are fibrous cords attached with:**
A. AV valve
B. Pericardium
C. Semilunar valve
D. Epicardium
- Q.41 The type of agranulocytes which stay in blood for few hours and then enter the tissue and become macrophages are:**
A. Lymphocytes
B. Eosinophils
C. Monocytes
D. Basophils
- Q.42 In humans, the closed sac which surrounds the heart is:**
A. Endocardium
B. Pericardium
C. Myocardium
D. Epicardium
- Q.43 At the end of abdomen, aorta bifurcates into:**
A. Renal arteries
B. Iliac arteries
C. Femoral arteries
D. Sciatic arteries
- Q.44 The correct direction of blood flow around the human body is:**
A. Heart → Body → Heart → Body → Lungs



- B. Heart → Lungs → Heart → Body → Heart
C. Heart → Liver → Heart → Brain → Body
D. Heart → Body → Lungs → Heart → Body
- Q.45 Heart receives _____ blood during diastole.**
A. Oxygenated
B. Venous
C. Deoxygenated
D. Oxygenated + nutrient rich
- Q.46 Physical barriers of immunity include:**
A. Skin and mucous membranes
B. Mucous membranes and phagocytes
C. Mucous membranes and HCl
D. Skin and lymphocytes
- Q.47 These are the proteins produced by body against bacteria and help to immobilize them:**
A. Immunoglobulins
B. Interferons
C. Heparin
D. Histamine
- Q.48 Antigen antibody complexes formed in body are removed by:**
A. Lymphocytes
B. RBCs
C. Phagocytes
D. Platelets
- Q.49 How many disulfide bridges are present between light chains in an antibody molecule?**
A. 0
B. 1
C. 2
D. 4
- Q.50 Mr. Ahmad went through kidney transplantation after ESRD. His transplanted kidney destroyed earlier than expected. This might be because of the action of:**
A. Phagocytes
B. T-lymphocytes
C. Antibodies
D. B-lymphocytes

**FOR MORE NMDCAT TEST AND
LECTURE**

Visit Our Website: www.saeedmdcat.com

MDCAT WhatsApp Groups: 03418729745

SAEED MDCAT TEAM



SAEEDMDCAT

Bio T-7 Key

| | A | B | C | D | | A | B | C | D | | A | B | C | D | | A | B | C | D |
|----|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----|-----------------------|----------------------------------|----------------------------------|----------------------------------|----|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----|----------------------------------|----------------------------------|----------------------------------|-----------------------|
| 1 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | 16 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | 31 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 46 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 17 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 32 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 47 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | 18 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | 33 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | 48 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| 4 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | 19 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | 34 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | 49 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 20 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | 35 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 50 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | 21 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | 36 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 51 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 22 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 37 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 52 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | 23 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 38 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 53 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | 24 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 39 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | 54 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 10 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 25 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 40 | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 55 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 11 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 26 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 41 | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 56 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 12 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | 27 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | 42 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | 57 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 13 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 28 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 43 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | 58 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 14 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 29 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 44 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | 59 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 15 | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | 30 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | 45 | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | 60 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

SAEED MDCAT

If you want to get all the test and Lec of all
Academy then follow us on different
platforms

WEBSITE.www.saeedmdcat.com

FB Group And Page.SAEED MDCAT

INSTAGRAM.SAEED MDCAT

Twitter.Smdcat

For WhatsApp Group.03418729745

Regards.Huzaiifa Saeed,Usama Sohail

Saeed MDCAT

TRUE HERO ALWAYS WINS

National MDCAT 2020 Results

190+ 35 Students

185+ 218 Students

180+ 677 Students

JOIN US FOR FREE
TO SECURE YOUR FUTURE



SAEED MDCAT
SAEED MDCAT TEAM
f SAEEDMDCAT